

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT

Placer County, California
03-PLA-28 – KP 14.79/16.53 (PM 9.19/10.27)
EA 03-198-0C9300



Draft Environmental Assessment (NEPA)/ Environmental Impact Report (CEQA)/ Environmental Impact Statement (TRPA)

Volume 1 of 4: Report

Prepared by
Jones & Stokes for:
Placer County Department of Public Works
Tahoe Regional Planning Agency
California Department of Transportation
U.S. Department of Transportation Federal Highway Administration



March 2007

GENERAL INFORMATION ABOUT THIS DOCUMENT

What's in this document:

The Placer County Department of Public Works (Tahoe Design Division) (DPW) has prepared this draft Environmental Assessment (DEA)/draft Environmental Impact Report (DEIR)/draft Environmental Impact Statement (DEIS). Each of the alternatives involves improvements to State Route 28 and associated pedestrian, bicycle, and parking facilities within the Kings Beach Commercial Core Improvement Area, located in Placer County, California.

This document has been prepared for review by Placer County departments and state and federal agencies that will play a role in the certification of the environmental document. The Federal Highway Administration is the federal lead agency under National Environmental Policy Act (NEPA), with the California Department of Transportation acting as liaison and providing oversight for the NEPA process. Under the California Environmental Quality Act (CEQA), Placer County is the lead agency, while the Tahoe Regional Planning Agency (TRPA) is the lead agency responsible for certification of the document pursuant to its regional plan.

This document examines the potential environmental effects of the alternatives being considered. The DEA has been prepared to meet the requirements of the NEPA, the DEIR to meet the requirements of the CEQA, and the DEIS to meet requirements established by TRPA. The document describes each project alternative, explains why each alternative is being proposed, and describes the existing environment that could be affected by the proposed action; the potential impacts from each of the alternatives; and the proposed avoidance, minimization, and/or mitigation measures.

What you should do:

- Please read this DEA/DEIR/DEIS. Additional copies of this document, as well as the technical studies, are available for review at the DPW and other public institutions including libraries, community centers, and other locations. These locations include:
 - Kings Beach Library, 301 Secline Drive, Kings Beach, CA 96143, (530) 546-2021
 - Tahoe City Library, 740 North Lake Boulevard, Tahoe City, CA 96145, (530) 583-3382
 - Public Works - Tahoe Design Division, 10825 Pioneer Trail, Suite 105, Truckee, CA 96161, (530) 581-6238
 - Community Development Resource Agency - Engineering and Surveying Department, 565 West Lake Boulevard, Tahoe City, CA 96145, (530) 581-6227
 - North Tahoe Conference Center, 8318 North Lake Boulevard, Kings Beach, CA 96143, (530) 546-7249
 - North Tahoe Business Association, 8645 North Lake Boulevard, Kings Beach, CA 96143, (530) 546-9000
 - North Tahoe Public Utility District, 875 National Avenue, Tahoe Vista, CA 96148, (530) 546-4212.

- The document is also available on the Internet at:
<<http://www.placer.ca.gov/Works/Projects/KingsBeach.aspx>>. Information regarding public meetings for the proposed action will also be available on this site.
- We welcome your comments. If you have any comments regarding the proposed action, please attend a public meeting/workshop and/or send your written comments to DPW by the end of the comment period on May 24, 2007. The following public meetings/workshops have been scheduled, with Spanish translations services available at all meetings/workshops:
 - April 25, 2007 at the North Tahoe Conference Center, 8318 North Lake Boulevard, Kings Beach, CA 96143, from 6:00 to 9:00 p.m.
 - May 1, 2007 at the North Tahoe Conference Center, 8318 North Lake Boulevard, Kings Beach, CA 96143, from 6:00 to 9:00 p.m.
 - May 2, 2007 at the Kings Beach Elementary School, 8125 Steelhead Road, Kings Beach, CA 96143, from 6:00 to 9:00 p.m. This meeting will be held in Spanish.
 - May 15, 2007 at the North Tahoe Conference Center, 8318 North Lake Boulevard, Kings Beach, CA 96143, from 6:00 to 9:00 p.m.
 - May 29, 2007 at the North Tahoe Conference Center, 8318 North Lake Boulevard, Kings Beach, CA 96143, from 6:00 to 9:00 p.m.
- Submit comments via postal mail or fax to:

Attention: Maywan Krach
 Environmental Coordination Services
 Community Development Resource Agency
 3091 County Center Drive, Suite 190
 Auburn, CA 95603
 (530) 745-3132
 (530) 745-3003 (fax)

- Submit comments via email to mkrach@placer.ca.gov.
- Submit comments by the deadline: May 24, 2007

What happens next:

After comments are received from the public and reviewing agencies, DPW may (1) give environmental approval to the proposed action, (2) undertake additional environmental studies, or (3) abandon the project. If the proposed action is given environmental approval and funding is appropriated, the DPW could design and construct all or part of the project.

For individuals with sensory disabilities, this document can be made available in Braille, large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please call or write to Placer County Tahoe Engineering, Attn: Dan LaPlante, 10825 Pioneer Trail, Suite 105, Truckee, CA 96161, Phone: (530) 581-6231, Fax: (530) 581-6239.


Provide improved pedestrian, bicycle, and parking facilities within the Kings Beach Commercial Core Improvement Project Area; and improve State Route 28 from the intersection of State Route 267 to 2.2 kilometer (1.4 miles) east to Chipmunk Street

DRAFT
ENVIRONMENTAL ASSESSMENT (NEPA)/
ENVIRONMENTAL IMPACT REPORT (CEQA)/
ENVIRONMENTAL IMPACT STATEMENT (TRPA)


Submitted Pursuant to: (State) Division 13, California Public Resources Code
(Federal) 42 USC 4332(2)(C)

Prepared by
Jones & Stokes for:
Placer County Department of Public Works
Tahoe Regional Planning Agency
California Department of Transportation
U.S. Department of Transportation Federal Highway Administration

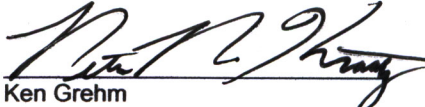
3-16-07
Date of Approval


John D. Webb
Environmental Manager
Caltrans North Region
CEQA Responsible agency –
NEPA Technical Assistance to FHWA

3-21-07
Date of Approval


Gene K. Fong
Division Administrator
Federal Highway Administration

3.14.2007
Date of Approval


Ken Grehm
Director
Placer County Department of Public Works

3.15.07
Date of Approval


John Singlaub
Executive Director
Tahoe Regional Planning Agency

Contents

[Volumes 2, 3, and 4, Appendices, are bound separately]

Volume 1 of 4: Report

Executive Summary	ES-1
ES.1 Introduction.....	ES-1
ES.2 Project Background.....	ES-4
ES.3 Purpose and Need	ES-5
ES.4 Project Elements	ES-6
ES.5 Alternatives Considered.....	ES-7
ES.6 Impacts and Mitigation Measures.....	ES-8
ES.7 Consistency with Environmental Laws, Regulations, and Policies.....	ES-8
ES.8 Issues Raised by the Public.....	ES-9
 Chapter 1. Proposed Action	 1-1
1.1 Introduction.....	1-1
1.2 Background.....	1-2
1.3 Environmental Setting	1-3
1.4 Purpose and Need	1-4
1.4.1 Purpose.....	1-4
1.4.2 Need	1-5
1.5 Performance Objectives/Existing Conditions That Need To Be Maintained	1-11
1.6 Required Permits and Approvals	1-12
1.6.1 Placer County under the California Environmental Quality Act.....	1-12
1.6.2 California Department of Transportation.....	1-13
1.6.3 Other Agencies Approval and Permits Required.....	1-14
1.6.4 Federal Highway Administration under the National Environmental Policy Act.....	1-14
1.6.5 California Department of Transportation under the Federal Highway Administration and National Environmental Policy Act.....	1-15
1.6.6 Tahoe Regional Planning Agency	1-15
1.7 Tahoe Regional Planning Agency Thresholds.....	1-15
1.8 Areas of Known Controversy	1-16

Chapter 2. Alternatives.....	2-1
2.1 Alternatives	2-1
2.2 Project Goals	2-1
2.2.1 Identified Purposes.....	2-2
2.2.2 Identified Needs	2-2
2.3 Alternatives Evaluated	2-2
2.3.1 Alternative 1 (No Build)	2-3
2.3.2 Alternative 2: Two Lanes with On-Street Parking and Two Roundabouts	2-3
2.3.3 Alternative 3: Four Lanes with On-Street Parking	2-5
2.3.4 Alternative 4: Three Lanes with Two Roundabouts and Without On-Street Parking	2-6
2.4 Features Common to all Alternatives	2-7
2.4.1 Pedestrian and Bicycle Mobility	2-7
2.4.2 Water Quality Improvements.....	2-7
2.4.3 Scenic and Aesthetic Improvements.....	2-10
2.4.4 Property Acquisitions.....	2-10
2.4.5 Parking	2-10
2.5 Alternatives Considered and Withdrawn	2-11
2.5.1 Roundabout Alternative	2-11
2.5.2 Alternative 5: Two Westbound Lanes, One Eastbound Lane, Two-Way Left-Turn Lane, Westbound On-street Parking and Two Roundabouts.....	2-12
2.5.3 Alternative 3a with Signals at Deer, Fox, and Secline Streets.....	2-12
2.5.4 Alternative 2b with Roundabouts at Deer Street and Fox Street	2-12
2.5.5 Alternative 4b with Roundabouts at Deer Street and Fox Street	2-13
Chapter 3. Affected Environment	3-1
3.1 Air Quality	3.1-1
3.1.1 Affected Environment.....	3.1-1
3.1.2 Regulatory Setting/ Tahoe Regional Planning Agency Thresholds.....	3.1-7
3.1.3 Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.1-13

3.1.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.1-24
3.1.5	Compliance with Tahoe Regional Planning Agency Code..	3.1-27
3.2	Cultural Resources.....	3.2-1
3.2.1	Affected Environment.....	3.2-1
3.2.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.2-11
3.2.3	Environmental Consequences (Including Permanent, Temporary, Direct, and Indirect)	3.2-16
3.2.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.2-24
3.2.5	Compliance with Tahoe Regional Planning Agency Code..	3.2-25
3.3	Social Environment.....	3.3-1
3.3.1	Affected Environment.....	3.3-1
3.3.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.3-6
3.3.3	Environmental Consequences (including Temporary, Direct, Indirect).....	3.3-8
3.3.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.3-17
3.3.5	Compliance with Tahoe Regional Planning Agency Code..	3.3-17
3.4	Hydrology and Floodplains.....	3.4-1
3.4.1	Affected Environment.....	3.4-1
3.4.2	Regulatory Setting/Tahoe Regional Planning Authority Thresholds.....	3.4-3
3.4.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.4-5
3.4.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.4-10
3.4.5	Compliance with Tahoe Regional Planning Agency Code..	3.4-10
3.5	Hazardous Waste/Material	3.5-1
3.5.1	Affected Environment.....	3.5-1
3.5.2	Regulatory Setting/ Tahoe Regional Planning Agency Thresholds.....	3.5-5
3.5.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.5-8

3.5.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.5-13
3.5.5	Compliance with Tahoe Regional Planning Agency Code..	3.5-18
3.6	Traffic.....	3.6-1
3.6.1	Affected Environment.....	3.6-1
3.6.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.6-11
3.6.3	Environmental Consequences (Permanent, Temporary, Direct, Indirect).....	3.6-13
3.6.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.6-30
3.6.5	Compliance with Tahoe Regional Planning Agency Code..	3.6-32
3.7	Parking.....	3.7-1
3.7.1	Affected Environment.....	3.7-1
3.7.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.7-3
3.7.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.7-3
3.7.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.7-12
3.7.5	Compliance with Tahoe Regional Planning Agency Code..	3.7-13
3.8	Land Use and Planning	3.8-1
3.8.1	Affected Environment.....	3.8-1
3.8.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.8-3
3.8.3	Environmental Consequences (Including Temporary, Direct, Indirect).....	3.8-4
3.8.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.8-18
3.8.5	Compliance with Tahoe Regional Planning Agency Code..	3.8-20
3.9	Noise	3.9-1
3.9.1	Affected Environment.....	3.9-1
3.9.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.9-7
3.9.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.9-15

3.9.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.9-22
3.9.5	Compliance with Tahoe Regional Planning Agency Code..	3.9-24
3.10	Recreation.....	3.10-1
3.10.1	Affected Environment.....	3.10-1
3.10.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.10-3
3.10.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.10-7
3.10.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.10-10
3.10.5	Section 4(f) <i>De Minimis</i> Impact Finding	3.10-12
3.10.6	Compliance with Tahoe Regional Planning Agency Code	3.10-12
3.11	Public Services and Utilities.....	3.11-1
3.11.1	Affected Environment.....	3.11-1
3.11.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.11-3
3.11.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.11-4
3.11.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.11-5
3.11.5	Compliance with Tahoe Regional Planning Agency Code..	3.11-8
3.12	Geology and Soils	3.12-1
3.12.1	Affected Environment.....	3.12-1
3.12.2	Regulatory Setting/Tahoe Regional Planning Agency TRPA Thresholds.....	3.12-11
3.12.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.12-22
3.12.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.12-26
3.12.5	Compliance with Tahoe Regional Planning Agency Code	3.12-27
3.13	Water Quality.....	3.13-1
3.13.1	Affected Environment.....	3.13-1
3.13.2	Regulatory Setting/ Tahoe Regional Planning Agency Thresholds.....	3.13-6
3.13.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.13-13

3.13.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.13-16
3.13.5	Compliance with Tahoe Regional Planning Agency Code	3.13-22
3.14	Growth-Inducing Impacts.....	3.14-1
3.14.1	Affected Environment.....	3.14-1
3.14.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.14-1
3.14.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.14-2
3.14.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.14-2
3.14.5	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.14-3
3.15	Visual Resources	3.15-1
3.15.1	Affected Environment.....	3.15-1
3.15.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.15-14
3.15.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.15-28
3.15.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.15-36
3.15.5	Compliance with Tahoe Regional Planning Agency Code—Specific Unit Impacts	3.15-40
3.16	Biological Resources	3.16-1
3.16.1	Affected Environment.....	3.16-1
3.16.2	Regulatory Setting/Tahoe Regional Planning Agency Thresholds.....	3.16-7
3.16.3	Environmental Consequences (Including Permanent, Temporary, Direct, Indirect)	3.16-13
3.16.4	Mitigation, Avoidance, Minimization, and Compensation Measures	3.16-18
3.16.5	Compliance with Tahoe Regional Planning Agency Code	3.16-20
Chapter 4.	Cumulative Effects.....	4-1
4.1	Projects Identified Within the Kings Beach Community	4-1
4.2	Assessment of Cumulative Effects	4-5
4.2.1	Short-Term Cumulative Effects.....	4-5

4.2.2	Long-Term Cumulative Effects	4-7
4.3	Short-Term Uses and Long-Term Productivity	4-19
4.4	Irreversible and Irretrievable Commitments of Resources	4-20
Chapter 5.	CEQA Impacts/Mandatory Findings of Significance	5-1
5.1	Introduction	5-1
5.2	Determining Significance Under CEQA and TRPA	5-1
5.3	Impacts Under CEQA	5-2
5.3.1	Air Quality	5-2
5.3.2	Cultural Resources	5-9
5.3.3	Social Environment.....	5-15
5.3.4	Hydrology and Floodplains.....	5-20
5.3.5	Hazardous Waste/Material.....	5-24
5.3.6	Traffic	5-33
5.3.7	Parking	5-42
5.3.8	Land Use and Planning	5-47
5.3.9	Noise	5-52
5.3.10	Recreation	5-55
5.3.11	Public Services and Utilities	5-57
5.3.12	Geology and Soils	5-62
5.3.13	Water Quality.....	5-65
5.3.14	Growth-Inducing Impacts	5-74
5.3.15	Visual Resources.....	5-74
5.3.16	Biological Resources	5-82
5.4	Discussion of Significant Impacts and Mitigation Under CEQA.....	5-87
5.4.1	Significant and Unavoidable Impacts	5-87
5.4.2	Significant and Irreversible Environmental Changes	5-88
Chapter 6.	Agency Coordination and Consultation	6-1
6.1	Public/Agency Involvement Process	6-1
6.1.1	Notice of Preparation	6-1
6.2.1	Public Outreach Activities	6-3
Chapter 7.	List of Preparers	7-1
7.2	List of Preparers.....	7-1
7.2.1	Jones & Stokes	7-1
7.2.2	Subconsultants	7-2

7.2.3	Caltrans	7-2
7.2.4	Placer County	7-3
7.2.5	Federal Highway Administration.....	7-4
7.2.6	Tahoe Regional Planning Agency	7-4
Chapter 8.	References.....	8-1
8.1	Printed References	8-1
8.2	Personal Communications	8-14

Volume 2 of 4, Appendices A–E [Bound Separately]

Appendix A	Notice of Preparation
Appendix B	Kings Beach Watershed Improvement Project Final Watershed Improvement Plan Memorandum
Appendix C	Kings Beach Commercial Core Air Quality Technical Study
Appendix D	Kings Beach Historic Property Survey Report, Archaeological Survey Report, and Historic Resources Evaluation Report
Appendix E	National Historic Preservation Act Section 106 Programmatic Agreement

Volume 3 of 4, Appendices F–K [Bound Separately]

Appendix F	Final Community Impact Assessment for the Kings Beach Commercial Core Improvements Project
Appendix G	Kings Beach Watershed Improvement Project Final Hydrologic Conditions Report
Appendix H	Griff Creek Location Hydraulic Study Form
Appendix I	Kings Beach Commercial Core Improvement Project Preliminary Delineation of Wetlands and Other Waters of the United States and USACE Verification Letter
Appendix J	Final Initial Site Assessment for Kings Beach Commercial Core Improvement Project
Appendix K	Phase II Environmental Site Assessment Kings Beach Commercial Core Improvement Project

Volume 4 of 4, Appendices L–S [Bound Separately]

Appendix L	Kings Beach Urban Improvement Project Traffic Report
Appendix M	Kings Beach Commercial Core Parking Study
Appendix N	Environmental Noise Analysis/Caltrans Protocol Technical Analysis SR 28 Kings Beach Corridor Improvement
Appendix O	Letters of Support for Section 4(f)
Appendix P	Kings Beach Commercial Core Improvements Visual Resources/Aesthetics Assessment
Appendix Q	Final Natural Environment Study for the Kings Beach Commercial Core Improvements Project
Appendix R	California Department of Transportation Title VI Policy Statement
Appendix S	Mitigation Monitoring and Reporting Program

Tables

	On Page
ES-1	TRPA Environmental Improvement Plan Projects ES-6
ES-2	Summary of Environmental Impacts—Proposed Action follows ES-8
1-1	Tahoe Regional Planning Agency Environmental Improvement Plan Projects 1-11
2-1	Relative Alternative Comparisons follows 2-2
2-2	Summary of Potential Parking Components follows 2-10
3.1-1	Ambient Air Quality Standards in California follows 3.1-2
3.1-2	Ambient Air Quality Monitoring Data Measured at the Echo Summit, South Lake Tahoe, Tahoe City, and Truckee Monitoring Stations follows 3.1-6
3.1-3	General Locations of Receptors 3.1-17
3.1-4	Modeled Construction Emission Estimates (pounds/day) 3.1-19
3.1-5	Modeled Motor Vehicle Emissions follows 3.1-20
3.1-6	Carbon Monoxide Modeling Concentrations Results follows 3.1-22
3.2-1	Pre-1960 Properties in Action Area follows 3.2-20
3.3-1	Selected Demographic Characteristics: 2000 Census 3.3-2
3.3-2	Racial Distribution of Area Populations: 2000 Census 3.3-3
3.3-3	Selected Housing Characteristics: 2000 Census 3.3-4
3.6-1	1992–2002 Caltrans Traffic Counts on State Routes in Kings Beach Area follows 3.6-4
3.6-2	Signalized Intersection LOS Criteria 3.6-6
3.6-3	Level of Service Definitions for Signalized Intersections 3.6-7
3.6-4	Relationship Between Delay and LOS for Unsignalized Intersections 3.6-8
3.6-5	Existing Summer Design Peak Hour Intersection Levels of Service 3.6-9
3.6-6	Accident History follows 3.6-10
3.6-7	Summary of Alternative Traffic Level of Service Impacts follows 3.6-14
3.6-8	Assessment of Alternatives Consistency with Transportation Goals of the KBCP follows 3.6-32
3.7-1	Summary of Potential Parking Components follows 3.7-2
3.7-2	Impact of Alternatives on Number of Parking Spaces follows 3.7-6
3.7-3	Evaluation of SR 28 Available On-Street Parking 3.7-8
3.7-4	Assessment of Alternatives’ Consistency with KBCP Parking Goals follows 3.7-13
3.8-1	Commercial Uses within the Action Area 3.8-2

3.9-1	Typical Noise Levels	3.9-4
3.9-2	Summary of Existing (2002) Modeled Traffic Noise Levels (Summer Conditions)	3.9-6
3.9-3	Activity Categories and Noise Abatement Criteria	3.9-8
3.9-4	Placer County Noise Element: Maximum Allowable Noise Exposure for Transportation Noise Sources.....	3.9-9
3.9-5	Placer County Noise Ordinance Sound Level Standards.....	3.9-11
3.9-6	TRPA Community Noise Level Standards	3.9-14
3.9-7	Summary of Near-Term (2008) Modeled Traffic Noise Levels and Comparison of Modeled Near-Term Alternative Traffic Noise Levels to No-Build (Alternative 1) Conditions	follows 3.9-18
3.9-8	Summary of Future-Year (2028) Modeled Traffic Noise Levels and Comparison of Modeled Build Alternative Traffic Noise Levels to No-Build (Alternative 1) Conditions	follows 3.9-18
3.9-9	Construction Equipment Noise.....	3.9-19
3.10-1	Section 4(f) Use of Land from Kings Beach SRA by Alternative.....	3.10-8
3.13-1	Caltrans Tahoe Basin Stormwater Data on Pollutant Concentrations	3.13-4
3.13-2	Caltrans Pollutant Sources	3.13-5
3.13-3	Temporary Best Management Practices	3.13-21
3.15-1	2001 Travel Route Ratings and Comments	3.15-11
3.15-2	2001 Scenic Quality Ratings and Comments.....	3.15-12
3.15-3	Summary of Impacts on Trees	3.15-38
3.15-4	2001 Travel Route Rating Changes Resulting from the Proposed Action	3.15-44
3.15-5	2001 Scenic Quality Rating Changes Resulting from the Proposed Project	3.15-44
3.16-1	Summary of Tree Inventory by Project Element	3.16-4
3.16-2	Regional Species of Concern Potentially Occurring in the Project Area	follows 3.16-6
3.16-3	Regional Species of Concern Assessment of Presence in the Project Area	follows 3.16-6
3.16-4	Summary of Impacts on Trees	3.16-14
4-1	Recent and Current Projects—Kings Beach, California.....	4-2
4-2	Summary of TRPA EIP Project—Kings Beach, California	4-4
4-3	Summary of Nevada Department of Transportation Projects—Kings Beach Area.....	4-5
4-4	Temporary Best Management Practices	4-18

Figures

	Follows Page
1-1 Vicinity and Location Map	1-2
2-1 Project Alternatives.....	2-2
2-2 Kings Beach Commercial Core Improvement Project Proposed Water Quality Improvement Components.....	2-8
2-3 Potential Parking Sites.....	2-8
2-4 Kings Beach Watershed Improvement Project Rejected Alt: Roundabout.....	2-12
2-5 Kings Beach Watershed Improvement Project Rejected Alt: Alt 5	2-12
3.1-1 Locations of Carbon Monoxide Modeling Receptors.....	3.1-16
3.4-1 Flood Hazard Map	3.4-2
3.4-2 Stream Environment Zone Boundary	3.4-2
3.6-1 Traffic Study Area	3.6-2
3.7-1 Potential Parking Sites.....	3.7-2
3.8-1 Land Use Zoning	3.8-4
3.9-1 Noise Monitoring Locations	3.9-6
3.9-2 Modeled Receiver Locations	3.9-6
3.10-1 Kings Beach State Recreation Area.....	3.10-2
3.10-2 Build Alternative 2.....	3.10-8
3.10-3 Build Alternative 3.....	3.10-8
3.10-4 Build Alternative 4.....	3.10-8
3.12-1 Land Capabilities in the Tahoe Basin	3.12-10
3.12-2 Land Capabilities in the Kings Beach Commercial Core	3.12-10
3.13-1 Watershed Map.....	3.13-2
3.13-2 Kings Beach Commercial Core Improvement Project Proposed Water Quality Improvement Components.....	3.13-14
3.15-1 Project Location.....	3.15-4
3.15-2 Key Viewpoints	3.15-4
3.15-3 Viewpoints 1 and 2	3.15-6
3.15-4 Viewpoints 3 and 4	3.15-6
3.15-5 Viewpoints 5 and 6	3.15-6
3.15-6 Viewpoints 7 and 8	3.15-6

3.15-7	Viewpoints 9 and 10	3.15-6
3.15-8	View of Intersection of Highways 267 and 28 in 1986	3.15-6
3.15-9	Viewpoint 12	3.15-6
3.15-10	Viewpoint 13	3.15-6
3.15-11	Viewpoint 14	3.15-6
3.15-12	Viewpoint 15	3.15-6
3.15-13	Viewpoint 16	3.15-6
3.15-14	Viewpoint 17	3.15-6
3.15-15	Study Area Units.....	3.15-8
3.15-16	Potential Parking Sites.....	3.15-26
3.15-17	Project Elements within the Biological Study Area	3.15-38
3.16-1	Biological Resources	3.16-2

List of Acronyms

ANSI	American National Standards Institute
Basin Plan	Water Quality Standards and Control Measures for the Lake Tahoe Basin
BAT/BCT	Best Available Technology Economically Achievable/Best Conventional Technology
BMPs	best management practices
Caltrans	California Department of Transportation
CCIP	Commercial Core Improvement Project
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CIP	Community Involvement Plan
CIPP	Community Involvement and Participation Plan
CNEL	community noise equivalent level
Code	Code of Ordinances
Community Plan	Kings Beach Community Plan
community right-to-know laws	Superfund Amendment and Reauthorization Act Title III
County General Plan	El Dorado County General Plan
County	Placer County
CP	Community Plan
CRHR	California Register of Historical Resources
CWA	Clean Water Act
dB	decibel
dBA	A-Weighted Decibel
DEA/DEIR/DEIS	draft environmental assessment/environmental impact report/environmental impact statement
DPR	California Department of Parks and Recreation
EA	environmental assessment
EA/EIR/EIS	environmental assessment/environmental impact report/environmental impact statement
EIP	Environmental Improvement Plan
EIR	environmental impact report

EIS	environmental impact statement
EMTs	emergency medical technicians
EPA	U.S. Environmental Protection Act
ESCC	Environmental Standards Carrying Capacity
FHWA	Federal Highway Administration
General Plan	Placer County General Plan
HCP	habitat conservation plan
IEC	International Electrotechnical Institute
KBCC	Kings Beach Commercial Core
KBCP	Kings Beach Community Plan
LDL	Larson Davis Laboratories
Ldn	day-night sound level
Leq	equivalent sound level
Lmin and Lmax	minimum and maximum sound levels
LOS	Level-of-Service
LRWQCB	Lahontan Region Water Quality Control Board
LTBMU	Lake Tahoe Basin Management Unit
Lxx	Exceedance Sound Level
MDB&M	Mount Diablo Baseline and Meridian
MEP	Maximum Extent Practicable
MOA	Memorandum of Agreement
NAC	noise abatement criteria
NCCP	natural communities conservation plan
NEPA	National Environmental Policy Act
NOI	notice of intent
NPDES	National Pollution Discharge Elimination System
NTFPD	North Tahoe Fire Protection District
NTPUD	North Tahoe Public Utility District
PAS	Plan Area Statements
PRC	Public Resources Code

proposed action Protocol	The Kings Beach Commercial Core Improvement Project Caltrans Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects
RCRA	Resource Conservation and Recovery Act
ROW	right-of-way
RTP	Regional Transportation Plan
SEZ	stream environment zones
SQIP	Scenic Quality Improvement
SR	State Route
SRA	State Recreation Area
Superfund	The Comprehensive Environmental Response, Compensation, and Liability Act
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	Technical Advisory Committee
TART	Tahoe Area Regional Transit
TRPA	Tahoe Regional Planning Agency
TTC	Temporary Traffic Control
USACE	U.S. Army Corps of Engineers
USFS	U.S. Forest Service